From the INTERNATIONAL SEARCHING AUTHORITY

To:	PCT		
LAWRENCE J. GOTTS SHAW PITTMAN LLP 1650 TYSONS BOULEVARD MCLEAN, VA 22102-4859	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION		
	(PCT Rule 44.1)		
	Date of mailing (day/month/year)		
Applicant's or agent's file reference WAA-348-PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No. PCT/US05/04176	International filing date (day/month/year) 11 February 2005 (11.02.2005)		
Applicant GORENSTEIN ET AL.			
The applicant is hereby notified that the international se Authority have been established and are transmitted here	earch report and the written opinion of the International Searching		
Filing of amendments and statement under Article 1. The applicant is entitled, if he so wishes, to amend the	9: claims of the international application (see Rule 46):		
When? The time limit for filing such amendments search report.	is normally two months from the date of transmittal of the international		
Where? Directly to the International Bureau of WII 1211 Geneva 20, Switzerland, Facsimile N	PO, 34 chemin des Colombettes Jo.: (41-22) 338.82.70.		
For more detailed instructions, see the notes on the	İ		
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.			
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:			
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.			
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.			
4. Reminders			
Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.			
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.			
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.			
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.			
	he applicable time limits, Office by Office, see the PCT Applicant's		
Name and mailing address of the ISA/ US	Authorized officer		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Marc Hoff / A (A) A (A)		
P.O. Box 1450 Alexandria, Virginia 22313-1450	Contract aller		
Facsimile No. (571) 273-3201	Telephone No. (703) 305-0976		
Form PCT/ISA/220 (January 2004)	(See notes on accompanying sheet)		

Form PCT/ISA/220 (January 2004)

From the INTERNATIONAL SEARCHING AUTHORITY

То:	PCT			
LAWRENCE J. GOTTS SHAW PITTMAN LLP 1650 TYSONS BOULEVARD MCLEAN, VA 22102-4859	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION			
	(PCT Rule 44.1)			
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Applicant's or agent's file reference WAA-348-PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US05/04176	International filing date (day/month/year) 11 February 2005 (11.02.2005)			
Applicant GORENSTEIN ET AL.				
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Filing of amendments and statement under Article 1 The applicant is entitled, if he so wishes, to amend the	9: claims of the international application (see Rule 46):			
	is normally two months from the date of transmittal of the international			
Where? Directly to the International Bureau of WI 1211 Geneva 20, Switzerland, Facsimile I	PO, 34 chemin des Colombettes No.: (41-22) 338.82.70.			
For more detailed instructions, see the notes on th				
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In respect of other designated Offices, the time limit of 30 months.) months (or later) will apply even if no demand is filed within 19			
See the Annex to Form PCT/IB/301 and, for details about Guide, Volume II, National Chapters and the WIPO Internet	the applicable time limits, Office by Office, see the PCT Applicant's site.			
Name and mailing address of the ISA/ US	Authorized officer /)			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Marc Hoff / Musel all			
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. (703) 305-0976			
Facsimile No. (571) 273-3201 Form PCT/ISA/220 (January 2004)	(See notes on accompanying sheet)			

From the INTERNATIONAL SEARCHING AUTHORITY

То:	PCT		
LAWRENCE J. GOTTS SHAW PITTMAN LLP 1650 TYSONS BOULEVARD MCLEAN, VA 22102-4859	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION		
	(PCT Rule 44.1)		
	Date of mailing (day/month/year) 19 MAY 2006		
Applicant's or agent's file reference WAA-348-PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No. PCT/US05/04176	International filing date (day/month/year) 11 February 2005 (11.02.2005)		
Applicant GORENSTEIN ET AL.			
The applicant is hereby notified that the international se Authority have been established and are transmitted her	arch report and the written opinion of the International Searching ewith.		
Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the	9: claims of the international application (see Rule 46):		
When? The time limit for filing such amendments search report.	is normally two months from the date of transmittal of the international		
Where? Directly to the International Bureau of WII 1211 Geneva 20, Switzerland, Facsimile N	PO, 34 chemin des Colombettes o.: (41-22) 338.82.70.		
For more detailed instructions, see the notes on the	ì		
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See the Annex to Form PCT/IB/301 and, for details about the Guide, Volume II, National Chapters and the WIPO Internet si	the applicable time limits, Office by Office, see the PCT Applicant's		
Name and mailing address of the ISA/ US	Authorized officer		
Mail Stop PCT, Attn. ISA/US Commissioner for Patents	Marc Hoff / Whysel all		
P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. (703) 305-0976 Telephone No. (703) 305-0976			

(See notes on accompanying sheet)

Facsimile No. (571) 273-3201 Form PCT/ISA/220 (January 2004)

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

International application No. International filing date (day/month/year) (Earliest) Priority Date (day/month/year) 11 February 2005 (11.02.2005) (13.02.2004) 13 February 2004 (13.02.2004) 13 February 2004 (13.02.2004) 14 February 2005 (11.02.2005) 15 February 2004 (13.02.2004) 15 February 2004 (13.02.2004) 16 February 2005 (11.02.2005) 16 February 2004 (13.02.2004) 16 February 2005 (11.02.2005) 16 February 2004 (13.02.2004) 16 February 2004 (13.02.2004) 16 February 2004 (13.02.2004) 16 February 2005 (11.02.2005) 16 February 2005 (11.02.2005) 16 February 2004 (13.02.2004) 17 February 2005 (11.02.2005) 17 February 2006 (13.02.2004) 17 February 2006 (13.0	Applicant's or agent's file reference WAA-348-PCT		e Form PCT/ISA/220 /here applicable, item 5 below.		
Applicant GORENSTEIN ET AL. This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of	International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of	1 CT/ COSCILITION				
according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of	· ·				
a. With regard to the language, the international search was carried out on the basis of: the international application in the language in which it was filed. a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)) b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I. Certain claims were found unsearchable (See Box No. II) Unity of invention is lacking (See Box No. III) With regard to the title, the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows: With regard to the abstract, the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority. With regard to the drawings, a. the figure of the drawings to be published with the abstract is Figure No. 2 as suggested by the applicant. as selected by this Authority, because the applicant failed to suggest a figure.	according to Article 18. A copy is being This international search report consists	of a total of sheets.			
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as suggested by the applicant. as selected by this Authority, because the applicant failed to suggest a figure.	6. With regard to the drawings,	110 to 1 old the charge in Figure No. 2			
as selected by this Authority, because the applicant failed to suggest a figure.					
			goest a figure.		
as selected by this Authority, because this right better characterizes are invention.					
b. none of the figures is to be published with the abstract.					

Form PCT/ISA/210 (first sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/04176

A. CLASSIFICATION OF SUBJECT MATTER				
IPC:	G01N 31/00(2006.01)			
USPC: 702/28 According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELI	OS SEARCHED			
U.S. : 70	cumentation searched (classification system followed b 02/28, 23, 29, 30, 31			
Documentation	on searched other than minimum documentation to the	extent that such documents are included in	the fields searched	
	ta base consulted during the international search (name ontinuation Sheet	e of data base and, where practicable, sear	ch terms used)	
C. DOC	JMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap		Relevant to claim No.	
X,E	US 2005/0226536 A1 (FASULO) 13 October 2005 (13.10.2005), Fig.1	1, 10, 19	
X,E	US 2005/0092910 A1 (GEROMANOS et al) 05 May	/ 2005 (05.05.2005), Fig.2	1, 10, 19	
X,P	US 2004/0172200 A1 (KEARNEY et al) 02 Septemb	1, 10, 19		
X,E	US 6,989,100 B2 (NORTON) 24 January 2006 (24.0	1-27		
Α	col. 12, line 17. US 6,677,583 (UMEMURA) 13 January 2004 (13.0	1-27		
Α	A US 6,625,546 B2 (SEPETOV et al) 23 September 2003 (23.09.2003), entire document.			
Α	US 6,329,652 B1 (WINDIG et al) 11 December 200	1-27		
	documents are listed in the continuation of Box C.	See patent family annex.		
"A" document	pecial categories of cited documents: defining the general state of the art which is not considered to be	"T" later document published after the inte date and not in conflict with the applic principle or theory underlying the inve	ation but cited to understand the	
•	lar relevance plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone	claimed invention cannot be red to involve an inventive step	
"L" document establish t specified)	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the considered to involve an inventive step combined with one or more other such	when the document is	
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the		
	published prior to the international filing date but later than the ste claimed	"&" document member of the same patent is		
1 9 M //		Date of mailing of the international search	ch report	
20 March 200 Name and ma	06 (20,03,2006) iling address of the ISA/US	Authorized officer	1,1	
Mai	Istop PCT, Atin: ISA/US umissioner for Patents	Marc Hoff (Mohnus &	lesten	
P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. (703) 305-0976				
Facsimile No. (571) 273-3201				

INTERNATIONAL SEARCH REPORT	International application No. PCT/US05/04176
	· .
Continuation of B. FIELDS SEARCHED Item 3: USPAT, USPGPUB, EPO, JPO, DERWENT, IBM_TDB search terms: LC/MS, retention time, delta, change	

Form PCT/ISA/210 (extra sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/04176

Box IV TEXT OF THE ABSTRACT (Cor	ntinuation of Item 5 of the tirst sheet)
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The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

In complex separations, more than one entity may have the same molecular weight, to within the ability of instrument to distinguish. Accurate mass measurements are used in light of the previously unknown regularities in retention time to determine a retention time map (212). The retention time map allows a reference retention time to be assigned to each entity in a separation. The reference retention times, together with accurate mass measurements, can then be used to track and to compare entities (708) between separations.

Form PCT/ISA/210 (continuation of first sheet(3)) (April 2005)

From the INTERNATIONAL SEARCHING AUTHOR	ORITY		
To: LAWRENCE J. GOTTS SHAW PITTMAN LLP 1650 TYSONS BOULEVARD MCLEAN, VA 22102-4859		PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY	
			(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	1 9 MAY 2006
Applicant's or agent's file reference		FOR FURTHER	ACTION See paragraph 2 below
WAA-348-PCT			
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/US05/04176	11 February 2005 (11.0)	2.2005)	13 February 2004 (13.02.2004)
International Patent Classification (IPC)	or both national classifica	tion and IPC	
IPC: G01N 31/00(2006.01)	·		·
USPC: 702/28			
Applicant			
GORENSTEIN ET AL.			
1. This opinion contains indications rela	ating to the following iter	ns:	
Box No. I Basis of the	opinion		
Box No. II Priority			·
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
Box No. IV Lack of unity of invention			
Box No. V Reasoned statement under Rule 43bis. 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box No. VI Certain documents cited			
Box No. VII Certain defects in the international application			
Box No. VIII Certain observations on the international application			ation
2. FURTHER ACTION			
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.			
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.			
1 of faction opinion, seed a series and a series are a series and a se			
3. For further details, see notes to Form PCT/ISA/220.			
Name and mailing address of the ISA/ U	JS Date of comple	etion of this	Authorized/office/
Mail Stop PCT, Attn: ISA/US	opinion		Marc Hoff / Solahay / Gaten
Commissioner for Patents P.O. Box 1450	20 March 2006	(20.03.2006)	
Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201			Telephone No. (703) 305-0976
Form PCT/ISA/237 (cover sheet) (April 20	005)		

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	
PCT/US05/04176	

Box No. I Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of:
the international application in the language in which it was filed
a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
on paper
in electronic form
c. time of filing/furnishing
contained in the international application as filed.
filed together with the international application in electronic form.
furnished subsequently to this Authority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/04176

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Box No. V Reasoned statement under Rule 43 applicability; citations and explanati	bis.1(a)(i ons supp) with regard to novelty, inventive step or industrorting such statement	ıal
1. Statement			
Novelty (N)	Claims	1-27	_YES
and the same of th		NONE	NO

Inventive step (IS)	Claims		_YE\$ _NO
	Ciaims	NONE	1,0
Industrial applicability (IA)	Claims	1-27	_YES
	Claims	NONE	_NO
			•
2. Citations and explanations: Claims 1-27 meet the criteria set out in PCT Article 33(2 in an LC/MS system through first and second injections retention times are based on a retention time map.	2)-(3), bec using refe	cause the prior art does not teach or fairly suggest tracking rence retention times and mass value, wherein the reference	entities ce
Claims 1-27 meet the criteria set out in PCT Article 33(4 can be made or used in industry.	4), and thu	us have industrial applicability because the subject matter c	laimed
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NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see PCT Applicant's Guide, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see PCT Applicant's Guide, Volume I/A, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the international Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.